

Bergman, Keith
47100 Pirates Drive
Gualala, CA
Case No. 1TMC424

Notice of Proposed No Further Action related to petroleum hydrocarbon discharge.
Comment Period ends October 19, 2002

Problem Description: The Bergman site is a residence located on an ocean bluff at 47100 Pirates Drive, Gualala, California. An underground storage tank was located on the east side of the house, approximately 20 feet from the edge of the bluff. On April 20, 1999, a preliminary investigation was performed to assess possible leakage from an operating 500-gallon home heating oil tank. The investigation included the drilling of two soil borings and the collection of three soil samples near the underground tank. Laboratory analytical results revealed Total Petroleum Hydrocarbons as Diesel (TPH-D) at 7,200 mg/kg in the soil sample collected from boring B-2 and TPH-D, toluene, ethylbenzene, and xylenes at 380, 0.83, 3.2 and 8.0 mg/kg, respectively, in the soil sample collected from boring B-1.

Based on the results of the preliminary assessment, the underground tank was removed from the site on June 21, 2000. Overexcavation activities were limited due to the structural integrity of the house, a fence line and access of the backhoe arm. Bedrock was encountered at approximately 12 feet below ground surface (bgs). Confirmation soil samples collected from the tank pit sidewalls revealed maximum concentrations of TPH-D, ethylbenzene and xylenes at 17,000, 13 and 52 mg/kg respectively. MtBE was reported below the laboratory detection limit.

On April 12, 2000 three additional soil borings were advanced in the area surrounding the tank pit excavation. Two of the soil borings, B-3 and B-4, were drilled within less than 5 feet of the north and west sidewalls of the tank excavation and a third soil boring, B-5, was advanced approximately 6 feet from the south sidewall. Two soil samples were collected from each soil boring and analyzed for TPH-D, BTEX and MtBE. Samples collected from B-3 contained reported maximum concentrations of TPH-D, ethylbenzene and xylene at 93, 0.11 and 0.68 mg/kg respectively. Samples collected from B-4 contained reported maximum concentrations of TPH-D, ethylbenzene and xylenes at 91, 0.19, 1.4 mg/kg respectively. Samples collected from B-5 were below the reporting limits for all of the analyzed constituents.

On March 15, 2001 three monitoring wells were installed. Laboratory results for groundwater samples collected from the monitoring wells did not indicate concentrations of TPH-D or BTEX during any of the sampling events between April 2001 through March 2002. Laboratory results for the 12/03/01 sampling event indicated concentrations of MtBE at 17.8 ug/l in monitoring well MW-3. Attempts to collect groundwater samples from the monitoring wells during the non-rainy season were unsuccessful due to lack of groundwater. Groundwater samples had to be collected from the monitoring wells after significant rain events in order to obtain enough water for analysis.

The site is located on a headland and the topography does not indicate an obvious area of recharge for groundwater. Observations made during the site investigation indicated that groundwater appears to occur only for limited periods of time after significant rains. The subsurface and surface discharges from the watersheds of the two perennial creeks located on the headland appear to reach the ocean upgradient and up-slope of the site. No domestic or municipal water supply wells are located within 750 feet of the site. The North Gualala Water Company supplies drinking water in the area.

Interim Actions Completed: The underground storage tank was removed and limited over-excavation was completed to the extent feasible. The tank pit was backfilled with clean pea gravel and overburden.

Proposed Action: Upon review of the record, Regional Water Board staff has proposed no further action.

MTBE Status: MtBE was reported below the laboratory detection limits in all site soil samples. Grab groundwater samples collected from the borings revealed concentrations of MtBE between 10.6 to 119 ug/l. A one-time detection of MtBE at 17.8 ug/l was reported in MW-3 on December 3, 2001.

Unless comments are received with significant new information, Regional Water Board staff plans to concur with no further action upon conclusion of the comment period. For further information concerning the Bergman, Keith site please contact Rachel Bosworth at (707) 576-2542 or email boswr@rb1.ca.gov.

(RSB/Bergman Notice.doc)